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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known

Application Number	10/784,911
Filing Date	02/23/2004
First Named Inventor	Xu et al.
Group Art Unit	1713
Examiner Name	Satya B. Sastri
Attorney Docket Number	PA115-57-03

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
CC	B1	3,527,062		Bilinski et al.	09-08-1970	
	B2	3,783,520		King	01-08-1974	
	B3	3,807,027		Heisler	04-30-1974	
	B4	3,807,029		Troeger	04-30-1974	
	B5	3,811,665		Seelig	05-21-1974	
	B6	4,062,600		Wyse	12-13-1977	
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	B34	4,737,425		LIN et al.	04-12-1988	

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Sheet

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Application Number 10/784,911

Filing Date 02/23/2004

First Named Inventor Xu et al.

Group Art Unit 1713

Examiner Name Satya B. Sastri

Attorney Docket Number PA115-57-03

U.S. PATENT DOCUMENTS

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	B36	4,808,511		Holmes	02-28-1989	
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Examiner Signature				Date Considered		3/18/02

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Group Art Unit	1713
Examiner Name	Satya B. Sastri

Attorney Docket Number PA115-57-03

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	B71	5,212,147		Sheats	05-18-1993	
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Examiner Signature	<i>LLC</i>			Date Considered	3/18/06	

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Sheet

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Group Art Unit	1713
Examiner Name	Satya B. Sastri

Attorney Docket Number PA115-57-03

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	B204	2002/0132482		Chou	09-19-2002	
Examiner Signature	<i>CM</i>			Date Considered	<i>3/18/06</i>	

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Substitute for form 1449A/PTO				Complete if Known	
				Application Number	10/784,911
				Filing Date	02/23/2004
				First Named Inventor	Xu et al.
				Group Art Unit	1713
				Examiner Name	Satya B. Sastri
Sheet	7	of	20	Attorney Docket Number	PA115-57-03

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
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ee 1	B238	2004/0170771	A1	Bailey et al.	09-02-2004	
Examiner Signature	<i>[Signature]</i>			Date Considered	<i>3/18/08</i>	

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Substitute for form 1449A/PTO				Complete if Known	
				Application Number	10/784,911
				Filing Date	02/23/2004
				First Named Inventor	Xu et al.
				Group Art Unit	1713
				Examiner Name	Satya B. Sastri
(use as many sheets as necessary)				Attorney Docket Number	PA115-57-03
Sheet	8	of	20		

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Sheet	9	of	20		

FOREIGN PATENT DOCUMENTS

Examiner Signature	(Signature)	Date Considered	CCP 3/18/01
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Sheet

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Examiner Name	Satya B. Sastri
Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>LLB</i>	B271	Abstract of Japanese Patent 02-24848, January 26, 1990	
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	B273	Abstract of Japanese Patent 55-88332, April 14, 2004	
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<i>LLB</i>	B281	CHERALA et al., "Applying Imprinting Material to Substrates Employing Electromagnetic Fields," U.S. Patent Application 10/687,562, Filed with USPTO Oct. 16, 2003	

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Date Considered

3/18/06

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Examiner Name	Satya B. Sastri
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(ccy)	B292	COWIE, "Polymers: Chemistry and Physics of Modern Materials.", 2 nd Ed., January 1, 1991, pp. 408-409	

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Sheet

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Complete if Known

Application Number	10/784,911
Filing Date	02/23/2004
First Named Inventor	Xu et al.
Group Art Unit	1713
Examiner Name	Satya B. Sastri
Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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(ut)	B293	FELDMAN et al., "Wafer Chuck Magnification Correction in X-Ray Lithography.", J. Vac. Sci. Technol. B 16(6), November 1, 1998, pp. 3476 – 3479.	
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Application Number	10/784,911
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Group Art Unit	1713
Examiner Name	Satya B. Sastri
Attorney Docket Number	PA115-57-03

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Wll	B304	HOGAN et al., "Impedance Control: An Approach to Manipulation: Part 1- Theory.", Journal of Dynamic Systems, Measurement, and Control, March 1, 1985, Vol. 107, pp. 1-7.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/784,911
Filing Date	02/23/2004
First Named Inventor	Xu et al.
Group Art Unit	1713
Examiner Name	Satya B. Sastri
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CCQ	B315	KOSEKI, "Design and Accuracy Evaluation of High-Speed and High Precision Parallel Mechanism.", Proc. Of IEEE, January 1, 1998, Intl. Conf. on Robotics & Automation, pp. 1340-1345.	
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CCQ	B325	MCMACKIN et al., "A System of Creating a Turbulent Flow of Fluid between a Mold and a Substrate," U.S. Patent Application 10/898,037, Filed with USPTO July 23, 2004.	

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<i>CC</i>	B326	MCMACKIN et al., "Single Phase Fluid Imprint Lithography Method," U.S. Patent Application 10/677,639, Filed with USPTO Oct. 16, 2003.	
	B327	MERLET, "Parallel Manipulators: State of the Art and Perspectives.", Advanced Robotics, January 1, 1994, Vol. 8, pp. 589-596.	
	B328	MIRKIN et al., "Emerging Methods for Micro-and-Nanofabrication.", MRS Bulletin, July 1, 2001, pp. 506-509.	
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	B330	NERAC.COM Retro Search, "Multi-Layer Resists.", September 2, 2004.	
	B331	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes.", August 31, 2004.	
	B332	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer.", September 2, 2004.	
	B333	NGUYEN, "Asymmetric Fluid-Structure Dynamics in Nanoscale Imprint Lithography." The University of Texas at Austin, August 1, 2001, pp. 1-111.	
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	B335	OTTO et al., "Step and Repeat UV-Nanoimprint Lithography: Material Issues.", NNT02 San Francisco, December 11, 2002.	
<i>CC</i>	B336	PAPIRER et al., "Abstract of The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography.", Journal of Colloid and Interface Science 159, August 1, 1993, pp. 238-242.	

Examiner Signature

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Date Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Complete if Known

Application Number	10/784,911
Filing Date	02/23/2004
First Named Inventor	Xu et al.
Group Art Unit	1713
Examiner Name	Satya B. Sastri
Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>LCQ</i>	B337	PARIKH et al., "An Intrinsic Relationship between Molecular Structure in Self-Assembled n-Alkylsiloxane Monolayers and Deposition Temperature.", Journal of Phys. Chem., July 1, 1994, pp. 7577-7590.	
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	B342	PHYSIK INSTRUMENTS, Product Catalog for Micropositioning, 1997	
	B343	RAIBERT et al., "Hybrid Position/Force Control of Manipulators.", Journal of Dynamic Systems, Measurement, and Control, June 1, 1981, Vol. 102, pp. 126 – 133.	
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<i>LCQ</i>	B346	ROOS et al., "Nanolithography with a Commercial 4 Inch Bond System for Hot Embossing.", Proceedings of SPIE, October 1, 2001, Vol. 4343, pp. 427-435.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

17

of

20

Complete if Known

Application Number	10/784,911
Filing Date	02/23/2004
First Named Inventor	Xu et al.
Group Art Unit	1713
Examiner Name	Satya B. Sastri
Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
(CC)	B348	SAGIV, "Organized Monolayers by Absorption. 1. Formation and Structure of Oleophobic Mixed Monolayers on Solid Surfaces.", Journal of American Chemical Society/102:1, January 2, 1980.	
	B349	SCHEER et al., "Problems of the Nanoimprinting Technique for Nanometer Scale Pattern Definition.", J. Vac. Sci. Techno. B., November 1, 1998, pp. 3917-3921.	
	B350	SLOCUM, "Precision Machine Design: Macromachine Design Philosophy and Its Applicability to the Design of Micromachines.", Micro Electro Mechanical Systems, February 4, 1992.	
	B351	SOWAH, Diamond Used to Break the Mould [online], Sept, 18, 2002, [Retrieved on Sept. 2, 2003.] Retrieved from the Internet: <URL: http://eetuk.com/showArticle.jhtml?articleID=19203691>.	
?	B352	SREENIVASAN et al., "An Imprint Lithography System to Produce a Light to Impinge upon and Polymerize a Liquid in Superimposition with Template Overlay Marks." U.S. Patent Application 10/864,214 Filed with USPTO June 9, 2004.	
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LL	B354	STEWART, "A Platform With Six Degrees of Freedom.", Proc Instrn Mech Engrs, May 28, 1965, Vol 180, Pt1, No. 15, pp. 371-378.	
	B355	STIX, "Getting More from Moores", Scientific American <i>no date</i>	
(CC)	B356	SUNG et al., "Abstract of Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication", Elsevier Science B.V., July 1, 2003, Vol. 255, no. 7	
(CJ)	B357	SUNG et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication.", Elsevier Science B.V., July 1, 2003, Vol. 255, No. 7, pp. 808-818.	
LL	B358	TAJBAKHSH et al., "Three-Degree-of-Freedom Optic Mount for Extreme Ultraviolet.", American Society for Precision Engineering, January 1, 1998, pp. 359-362.	

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Considered*3/18/06*

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 18 of 20

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Application Number	10/784,911
Filing Date	02/23/2004
First Named Inventor	Xu et al.
Group Art Unit	1713
Examiner Name	Satya B. Sastri
Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W	B359	TANIKAWA et al., "Development of Small-sized 3 DOF Finger Module in Micro Hand for Micro Manipulation.", Proc. of IEEE, March 1, 1999, Intl. conf. on Intelligent Robots and Systems, pp. 876-881.	
W	B360	TOMITA et al., "A 6-axes Motion Control Method for Parallel-Linkage-Type Fine Motion Stage.", JSPE-58-04, pp. 118-124.	WPA
W	B361	Translation of Japanese Patent 02-24848, January 26, 1990.	
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W	B363	TRILOGY SYSTEMS, "Linear Motors 310.", www.trilogysystems.com, January 1, 2001.	
?	B364	US Application No. 10/375,817 Filed 02-27-2003, NGUYEN et al., "Method to Reduce Adhesion between a Polymerizable Layer and a Substrate Employing a Fluorine-Containing Layer."	
?	B365	US Application No. 10/463,396, Filed 06-17-2003, CHOI et al., "Method to Reduce Adhesion Between a Conformable Region and a Pattern of a Mold."	
?	B366	US Application No. 10/735,110, Filed 12-12-2003, NIMMAKAYALA et al., "Magnification Correction Employing Out-of-Plane Distortion of a Substrate."	
?	B367	US Application No. 10/785,248, Filed 02-24-2004, CHOI et al., "A Method to Control the Relative Position Between a Body and a Surface."	
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?	B369	US Application No. 10/806,956, Filed 03-23-2003, CHOI et al., "An Apparatus to Control Displacement of a Body Spaced-Apart from a Surface."	

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				Application Number	10/784,911
				Filing Date	02/23/2004
				First Named Inventor	Xu et al.
				Group Art Unit	1713
				Examiner Name	Satya B. Sastri
Sheet	19	of	20	Attorney Docket Number	
PA115-57-03					

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
?	B370	US Applications No. 10/194,991, Filed 07-11-2002, SREENIVASAN et al., "Step and Repeat Lithography Processes."	<i>MOBIZ</i>
?	B371	US Applications No. 10/687,519, Filed 10-16-2003, NGUYEN et al., "Low Surfaced Energy Template."	<i>MOBIZ</i>
<i>Uk</i>	B372	VANDERBILT UNIVERSITY OFFICE OF TRANSFER TECHNOLOGY; VU9730 Specifications for Improved Flexure Device; 2001, 25, 192-199.	
<i>U</i>	B373	WANG et al., "Passive Compliance versus Active Compliance in Robot-Based Automated Assembly Systems.", Industrial Robot, January 1, 1998, Vol. 25, No. 1, pp. 48-57.	
<i>U</i>	B374	WILLIAMS et al., "Six Degree of Freedom Mag-Lev Stage Development.", SPIE, January 1, 1997, Vol. 3051, pp. 856-867.	
?	B375	WILLSON et al., "Step and Flash Imprint Lithography", U.S. Patent Application 10/606,051, Filed with USPTO March 22, 2004.	<i>MOBIZ</i>
<i>Uk</i>	B376	WU, "Large Area High Density Quantized Magnetic Disks Fabricated Using Nanoimprint Lithography.", J. Vac. Sci. Technol., November 1, 1998, B 16(6), pp. 3825-3829.	
<i>U</i>	B377	XIA et al., "Soft Lithography.", Annu Rev. Mater Sci. 1998 28: 153-184	
<i>Ua</i>	B378	XIA et al., "Soft Lithography.", Angew. Chem. Int. Ed., January 1, 1998, pp. 551-575.	
?	B379	XU et al., "Materials for Imprint Lithography," U.S. Patent Application 10/784,911, Filed with USPTO Feb. 23, 2004.	<i>MOBIZ</i>
?	B380	XU et al., "Methods for Fabricating Patterned Features Utilizing Imprint Lithography,: U.S. Patent Application 10/694,284, Filed with USPTO Oct., 27, 2003.	<i>MOBIZ</i>

Examiner Signature		Date Considered	3/18/01
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 20 of 20

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Application Number	10/784,911
Filing Date	02/23/2004
First Named Inventor	Xu et al.
Group Art Unit	1713
Examiner Name	Satya B. Sastri
Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>LLC</i>	B381	Chou, Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837.	

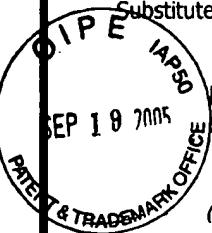
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 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER 10/784,911 FILING DATE 02/23/2004 FIRST NAMED INVENTOR Xu et al. Group Art Unit 1713 Examiner Name Sastri, Satya B. Attorney Docket Number PA115-57-03	
Sheet	1	of	10		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
(Ceb)	G1	6,316,290	B1	Wensel	11/13/2001	
	G2	6,541,356	B2	Fogel et al.	4/1/2003	
	G3	2004/0065252	A1	Sreenivasan et al.	4/8/2004	
	G4	6,696,157	B1	David et al.	2/24/2004	
	G5	2004/0112862	A1	Willson et al.	6/17/2004	
	G6	6,335,149	B1	Xu et al.	1/1/2002	
	G7	6,600,207	B2	Huang et al.	7/29/2003	
	G8	5,956,216		Chou	9/21/1999	
	G9	5,820,769		Chou	10/13/1998	
	G10	6,190,929	B1	Wang et al.	2/20/2001	
	G11	5,204,381		Zeigler	4/20/1993	
	G12	6,066,269		Wei et al.	5/23/2000	
	G13	4,722,878		Watakabe et al.	2/2/1988	
	G14	2001/0044075	A1	Nishimura et al.	11/22/2001	
	G15	5,369,722		Heming et al.	11/29/1994	
	G16	6,475,704	B1	Iwasaki et al.	11/5/2002	
(Ceb)	G17	2005/0051698	A1	Sreenivasan et al.	3/10/2005	

Examiner Signature		Date Considered	3/18/08
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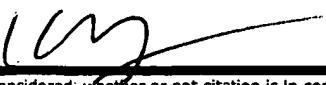
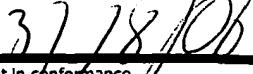
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NUMBER	10/784,911
<i>(use as many sheets as necessary)</i>				FILING DATE	02/23/2004
Sheet 2 of 10				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
ICle	G18	6,132,632		Haney et al.	10/17/2000	
	G19	6,344,105	B1	Daugherty et al.	2/5/2002	
	G20	5,905,104		Eklund et al.	5/18/1999	
	G21	6,468,896	B2	Rohr et al.	10/22/2002	
	G22	6,342,097	B1	Terry et al.	1/29/2002	
	G23	5,234,793		Sebald et al.	8/10/1993	
	G24	6,174,931	B1	Moon et al.	1/6/2001	
	G25	2005/0084804	A1	Truskett et al.	4/21/2005	
	G26	2005/0100830	A1	Xu et al.	5/12/2005	
	G27	2005/0118749		Sakamoto et al.	6/2/2005	
	G28	2004/0202872	A1	Fang et al.	10/14/2004	
	G29	4,517,337		Lockhart et al.	5/14/1985	
	G30	2004/0241338	A1	Foster et al.	12/2/2004	
	G31	3,919,351		Chang et al.	11/11/1975	
	G32	4,514,439		Rounds	4/30/1985	
	G33	4,271,258		Watariguchi	6/2/1981	
ICle	G34	4,988,274		Kenmochi	1/29/1991	

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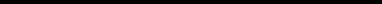
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Sheet	3	of	10	APPLICATION NUMBER	10/784,911
				FILING DATE	02/23/2004
				FIRST NAMED	Xu et al.
				INVENTOR	
				Group Art Unit	1713
				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

Examiner Signature		Date Considered	3/18/03
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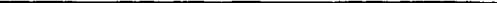
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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(use as many sheets as necessary)</i></p>				<p>Complete if Known</p>	
Sheet	4	of	10	APPLICATION NUMBER	10/784,911
				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

Examiner Signature		Date Considered	3/18/06
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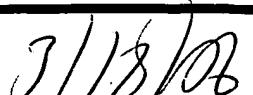
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<i>(use as many sheets as necessary)</i>				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
Sheet	5	of	10	Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²

1/16	G52	BLOMQUIST ET AL., Fluorinated Acrylates in making Low-Loss, Low-Birefringence, and Single-Mode Optical Waveguides with Exceptional Thermo-Optic Properties, SPIE Conference on Linear Optical Properties of Waveguides and Fibers, Vol. 3799, pp. 266 - 279 7/1/1999	
1/16	G53	ELDADA ET AL., Robust Photopolymers for MCM, Board, and Backplane Optical Interconnects, SPIE Vol. 3288, pp. 175 - 191 1/1/1998	
	G54	ELDADA ET AL., Affordable WDM Components: The Polymer Solution, SPIE Vol. 3234, pp. 161 - 174 1/1/1998	
	G55	ELDADA ET AL., Advanced Polymer Systems for Optoelectronic Integrated Circuit Applications, SPIE Vol. 3006, pp. 344 - 361 1/1/1997	
	G56	HIRAI ET AL., Abstract of Mold Surface Treatment for Imprint Lithography, Journal of Photopolymer Science and Technology, pp 457-462, vol 14, No. 3 8/1/2001	
	G57	ROOS ET AL., Abstract of Nanoimprint Lithography with a Commercial 4 Inch Bond System for Hot Embossing, Proceedings of SPIE Vol. 4343, pp. 427-435 10/1/2001	
	G58	Sol-Gel Technology, www.chemat.com/html/solgel.html 1/14/2004	
	G59	Sol-Gel Chemistry, www.prsc/usm.edu/mauritz/solgel.html 2/2/2004	
1/16	G60	HAKOVIRTA ET AL., Optical Properties of Fluorinated Diamond-Like Carbon Films Produced by Pulsed Glow Discharge Plasma Immersion Ion Processing, Journal of Applied Physics 88(3); pp1456-1459 8/1/2000	

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Sheet	6	of	10	APPLICATION NUMBER	10/784,911
				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

	G61	APPLICATION NO. 11/027,473, naming Inventors Bailey et al., entitled Release Layer Comprising Diamond-Like Carbon (DLC) or Doped DLC with Tunable Composition for Imprint Lithography Templates and Contact Masks, filed 12/30/2004	
	G62	APPLICATION NO. 10/789,319, naming Inventors Xu et al., entitled Composition for an Etching Mask Comprising a Silicon-Containing Material, filed 2/27/2004	
	G63	APPLICATION NO. 10/948,511, naming Inventors Xu et al., entitled Polymerization Technique to Attenuate Oxygen Inhibition of Solidification of Liquids and Composition Thereof, filed 9/23/2004	
	G64	APPLICATION NO. 10/967,740, naming Inventors Xu et al., entitled Low-K Dielectric Functional Imprinting Materials, filed 10/18/2004	
	G65	APPLICATION NO. 10/919,062, naming Inventors Xu et al., entitled Composition to Provide a Layer with Uniform Etch Characteristics, filed 8/16/2004	
	G66	APPLICATION NO. 10/919,224, naming Inventors Xu et al., entitled Method to Provide a Layer with Uniform Etch Characteristics, filed 8/16/2004	
	G67	APPLICATION NO. 10/978,285, naming Inventors Willson et al., entitled Step and Flash Imprint Lithography, filed 10/29/2004	
	G68	APPLICATION NO. 11/062,420, naming Inventors Willson et al., entitled Step and Flash Imprint Lithography, filed 2/22/2005	
	G69	APPLICATION NO. 11/068,397, naming Inventors Xu et al., entitled Method of Providing Desirable Wetting and Release Characteristics between a Mold and a Polyerizable Composition, filed 2/28/2005	

Examiner Signature		Date Considered	3/18/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
<i>(use as many sheets as necessary)</i>					
Sheet	7	of	10	APPLICATION NUMBER	10/784,911
				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	G70	APPLICATION NO. 11/068,174 naming Inventors Xu et al., entitled Method to Reduce Adhesion Between a Conformable Region and a Mold, filed 2/28/2005

	G70	APPLICATION NO. 11/068,174 naming Inventors Xu et al., entitled Method to Reduce Adhesion Between a Conformable Region and a Mold, filed 2/28/2005
<i>Ice</i>	G71	Data Sheet for MAK (Methyl n-Amyl Ketone), www.sp-chem.com/fine_e 1/1/2003
<i>Ice</i>	G72	Data Sheet for gamma-Glycidoxypropyltrimethoxysilane, www.powerchemical.net/3100.htm 12/5/2003
<i>Ice</i>	G73	Silicon or Silica, www.mii.org/Minerals/photosil 3/31/2005
<i>Ice</i>	G74	Electronic Devices and Circuits, people.deas.harvard.edu/~jones/es154/lectures/lecture_2/materials/materials.html 3/31/2005
	G75	Data Sheet for Cymel 303ULF, www.cytec.com
	G76	Data Sheet for Cycat 4040, www.cytec.com
<i>Ice</i>	G77	International Chemical Safety Card for p-TolueneSulfonic Acid, www.itcilo.it/english/actrav/telearn/osh/ic/104154.htm 12/5/2003
	G78	Data Sheet for p-Toluenesulfonic Acid, NIOSH Manual of Analytical Methods (NMAM), Fourth Edition

Examiner Signature	<i>W</i>	Date Considered	<i>3/18/06</i>
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(use as many sheets as necessary)				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
Sheet	8	of	10	Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

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	G79	Data Sheet for Dow Corning Z-6018, <i>NO DATA</i>	
<i>CC</i>	G80	Data Sheet for Methyl Amyl Ketone, www.arb.ca.gov/db/solvents/solvent_pages/Ketones-HTML/methyl_amyl.htm 3/31/2005	
	G81	GOLDEN ET AL., Designing Porous Low-k Dielectrics, www.reed-electronics.com/semiconductor/index.asp?layout=articlePrint&articleID=CA82824 4/6/2005	
	G82	PADOVANI ET AL., Chemically Bonded Porogens in Methylsilsesquioxane: I. Structure and Bonding, <i>Journal of the Electrochemical Society</i> , 149 (12) F161-F170 10/16/2002	
	G83	WOLF ET AL., Silicon Processing for the VLSI Era, Volume 1--Process Technology, pp. 407-413 1/1/1986	
	G84	TANIGUCHI ET AL., Diamond Nanoimprint Lithography, <i>Nanotechnology</i> , 2002, vol. 13, no. 5, pp. 592-596(5) 1/1/2002	
	G85	KIYOHARA ET AL., Abstract of Plasma Etching of CVD Diamond Films using an ECR-type Oxygen Source, http://www.iop.org/EJ/abstract/0957-4484/10/4/304 9/26/2003	
	G86	WOLF ET AL., Silicon Processing for the VLSI Era, Volume 1--Process Technology, pp. 541, 542, 544, 564, 565 1/1/1986	
<i>W</i>	G87	Novec Fluorosurfactant FC-4432, http://multimedia.mmm.com/mws/mediawebserver.dyn?333333SQa783cMj3wMj333wyXuFiiiiH-8/4/2005	

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				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

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	G88	Abstract of Japanese Patent 61-040845, 2/27/1986			

<i>LL</i>	G88	Abstract of Japanese Patent 61-040845, 2/27/1986	
<i>LL</i>	G89	Abstract of Japanese Patent 02-248480, 10/4/1990	
<i>LL</i>	G90	Abstract of Japanese Patent 3-090345, 4/16/1991	
<i>LL</i>	G91	Abstract of Japanese Patent 09-278490, 10/28/1997	
<i>LL</i>	G92	Abstract of Japanese Patent 61-040845, 2/27/1986	
<i>LL</i>	G93	Abstract of Japanese Patent 02-248480, 10/4/1990	
<i>LL</i>	G94	APPLICATION NO. 11/187,406, naming Inventors Xu, entitled Composition for adhering materials together, filed 7/22/2005	<i>LL</i>
<i>LL</i>	G95	APPLICATION NO. 11/187,407, naming Inventors Xu, entitled Method for adhering materials together, filed 7/22/2005	<i>LL</i>
<i>LL</i>	G96	XU ET AL., Development of Imprint Materials for the Step and Flash Imprint Lithography Process, SPIE Microlithography Conference 2/1/2004	

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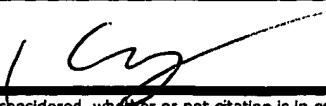
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				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
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				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

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100	G97	NORDQUIST ET AL., Image Placement Issues for ITO-based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B, pp. 695-701 3/1/2004	
104	G98	RESNICK ET AL., Release Layers for Contact and Imprint Lithography, Semiconductor International, pp. 71-80 6/1/2002	

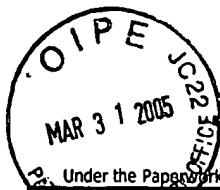
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STATEMENT BY APPLICANT***(use as many sheets as necessary)*

Sheet 1 of 5

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FILING DATE	02/23/2004
FIRST NAMED INVENTOR	Xu et al.
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Attorney Docket Number	PA115-57-03

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

<i>Cox</i>	C1	6,391,217	B2	Schaffer et al.	5/21/2002	
	C2	2004/0007799	A1	Choi et al.	1/15/2004	
	C3	2004/0021254	A1	Sreenivasan et al.	2/5/2004	
	C4	2004/0021866	A1	Watts et al.	2/5/2004	
	C5	2004/0022888	A1	Sreenivasan et al.	2/5/2004	
	C6	2002/0177319	A1	Chou	11/28/2002	
	C7	6,518,189	B1	Chou	2/11/2003	
	C8	2004/0192041	A1	Jeong et al.	9/30/2004	
	C9	6,828,244	B2	Chou	12/7/2004	
	C10	6,809,356	B2	Chou	10/26/2004	
	C11	2004/0197843	A1	Chou et al.	10/7/2004	
	C12	2004/0156108	A1	Chou et al.	8/12/2004	
	C13	2004/0137734	A1	Chou et al.	7/15/2004	
	C14	2004/0131718	A1	Chou et al.	7/8/2004	
	C15	2004/0118809	A1	Chou et al.	6/24/2004	
	C16	2004/0046288	A1	Chou	3/11/2004	
	C17	2003/0080472	A1	Chou	5/1/2003	
<i>kes</i>	C18	2003/0034329	A1	Chou	2/20/2003	

Examiner Signature	<i>ICRA</i>	Date Considered	<i>3/18/06</i>
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STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 5

APPLICATION NUMBER	10/784,911
FILING DATE	02/23/2004
FIRST NAMED INVENTOR	Xu et al.
Group Art Unit	1713
Examiner Name	Sastri, Satya B.
Attorney Docket Number	PA115-57-03

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

10/11	C19	2002/0042027	A1	Chou et al.	4/11/2002	
	C20	10/763,885		Xu et al.	1/23/2004	
	C21	5,594,042		Glover et al.	1/14/1997	
	C22	5,629,095		Bujanowski et al.	5/13/1997	
	C23	5,861,467		Bujanowski et al.	1/19/1999	
	C24	5,331,020		Brown et al.	7/19/1994	
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	C26	6,580,172	B2	Mancini et al.	6/17/2003	
	C27	11/012,374		Xu et al.	12/15/2004	
	C28	4,512,848		Deckman et al.	4/23/1985	
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	C30	2004/0110856	A1	Young et al.	6/10/2004	
	C31	11/068,174		Xu et al.	2/28/2005	
	C32	5,028,366		Harakal et al.	7/2/1991	
	C33	5,601,641		Stephens	2/11/1997	
	C34	5,849,209		Kindt-Larsen et al.	12/15/1998	
10/11	C35	5,849,222		Jen et al.	12/15/1998	

Examiner
SignatureDate
Considered

3/18/06

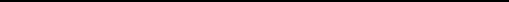
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				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
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				Examiner Name	Sastri, Satya B.
Sheet	3	of	5	Attorney Docket Number	PA115-57-03

Examiner Signature		Date Considered	3/18/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				APPLICATION NUMBER	10/784,911
				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03
Sheet	4	of	5		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²

<i>11/18</i>	C42	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000	
	C43	Papirer et al., The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography, Journal of Colloid and Interface Science 159, pp.238-242, 8/1/1993	
	C44	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technoloy B 14(16), pp. 4129-4133, 11/1/1996	
	C45	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
	C46	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	
	C47	Yu et al., Properties of Fluorinated Amorphous Diamond Like Carbon Films by PECVD, Applied Surface Science 219 (3-4); pp. 228-237, 12/1/2003	
	C48	Compon et al., Electroanalysis at Diamond-Like and Doped-Diamond Electrodes, Electroanalysis 15(17); pp. 1349-1363, 9/1/2003	
	C49	Mansano et al., Protective Carbon Layer for Chemical Corrosion of Stainless Steel, Diamond and Related Materials 12 (3-7); pp. 749-752, 3/1/2003	
<i>11/18</i>	C50	Butter et al., Production and Wetting Properties of Fluorinated Diamond-Like Carbon Coatings, Thin Solid Films, 311(1-2); pp. 107-113, 12/31/1997	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>					
Sheet	5	of	5	APPLICATION NUMBER	10/784,911
				FILING DATE	02/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1713
				Examiner Name	Sastri, Satya B.
				Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
T ²					

<i>(CCF)</i>	C51	Hakovirta et al., Heat Resistance of Fluorinated Diamond-Like Carbon Films, Diamond and Related Materials 10(8); pp. 1486-1490, 8/1/2001	
	C52	Zhu et al., The Improvement of the Oxidation Resistance of TiAl Alloys by Fluorine Plasma-Based Ion Implantation, Surface and Coatings Technology 158; pp. 502-507, 9/1/2002	
	C53	Yao et al., Structural, Mechanical and Hydrophobic Properties of Fluorine-Doped Diamond-Like Carbon Films Synthesized by Plasma Immersion Ion Implantation and Deposition (PIII-D), Applied Surface Science 230; pp. 172-178, 4/17/2004	
	C54	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	
<i>(CCF)</i>	C55	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
	C56	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	<i>NO OFFICE</i>

Examiner Signature	<i>KLCS</i>	Date Considered	<i>3/18/06</i>
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First Named Inventor	Frank Y. Xu																
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Attorney Docket Number	PA115-57-03																
Sheet	1	of	1														

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Title of Invention	MATERIALS FOR IMPRINT LITHOGRAPHY							
Application Number :	10/784911							
Confirmation Number:	6149							
First Named Applicant:	Frank Xu							
Attorney Docket Number:	PA115-57-03							
Art Unit:	1713							
Examiner:	Satya B. Sastri							
Search string:			(6468642 or 5542978 or 5837314 or 6565776 or 6503914 or 6649272 or 6204343 or 4614667 or 3810874 or 6737489 or 6721529 or 6664306 or 6790905 or 6544594 or 6774183 or 6830819 or 6802870 or 5389696).pn					
US Patent Documents								
Note: Applicant is not required to submit a paper copy of cited US Patent Documents								
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	
1	1	6468642	2002-10-22	Bray et al.	B1			
	2	5542978	1996-08-06	Kindt-Larsen et al.				
	3	5837314	1998-11-17	Beaton et al.				
	4	6565776	2003-05-20	Li et al.	B1			
	5	6503914	2003-01-07	Benish et al.	B1			
	6	6649272	2003-11-18	Moore et al.	B2			
	7	6204343	2001-03-20	Barucha et al.	B1			
	8	4614667	1986-09-30	Larson et al.				
	9	3810874	1974-05-14	Mitsch et al.				
	10	6737489	2004-05-18	Linert et al.	B2			
	11	6721529	2004-04-13	Chen et al.	B2			
	12	6664306	2003-12-16	Gaddam et al.	B2			
	13	6790905	2004-09-14	Fitzgerald et al.	B2			
	14	6544594	2003-04-08	Linford et al.	B2			
	15	6774183	2004-08-10	Palumbo et al.	B1			
	16	6830819	2004-12-14	Kaplan et al.	B2			
	17	6802870	2004-10-12	Chang et al.	B2			
18	18	5389696	1995-02-14	Dempsey et al.				

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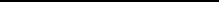
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				Examiner Name	Satya B. Sastry
				Attorney Docket Number	PA115-57-03

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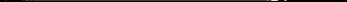
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Sheet		2	of	2	Examiner Name	Satya B. Sastri
					Attorney Docket Number	PA115-57-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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<i>WB</i>	F8	BENDER ET AL., Multiple Imprinting in UV-based Nanoimprint Lithography: Related Material Issues, Microelectronic Engineering 61 - 62, pp. 407 - 413 1/1/2002	
	F9	APPLICATION NO. 11/126,946, naming Inventors Choi et al., entitled Formation of Discontinuous Films During an Imprint Lithography Process, filed 5/11/2005	
	F10	APPLICATION NO. 11/127,041, naming Inventors Sreenivasan et al., entitled Step and Repeat Imprint Lithography Processes, filed 5/11/2005	
	F11	APPLICATION NO. 11/127,060, naming Inventors Sreenivasan et al., entitled Step and Repeat Imprint Lithography Systems, filed 5/11/2005	

Examiner Signature	<i>IC</i>	Date Considered	<i>3/18/06</i>
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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